REMARKS
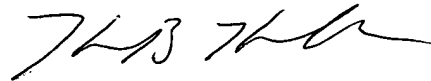
Applicant has paid a fee under 37 C.F.R. 1.16(c) for newly added dependent claims 24-30.
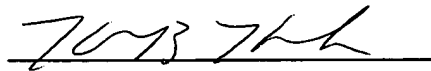
Respectfully Submitted,

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Applicant

Agent #42,757

Dated: October 8, 2001

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope with sufficient postage addressed to: Assistant Commissioner for Patents, Washington, D. C. 20231

on _October 8, 2001_

H. Brock Kolls

<u>VERSION WITH MARKINGS TO SHOW CHANGES MADE</u>

<u>IN THE CLAIMS</u>

1. (Amended) A communication interface device for managing wireless data
communications between an in-vehicle device installed in a vehicle and a
plurality of global network based data processing resources, said communication
interface device being located external to said vehicle, <u>said communication
interface device</u> comprising:

      <u>a controller;</u>

      a wireless transceiver <u>interconnected with said controller</u> for wirelessly data
communicating between said in-vehicle device and said communication
interface device;

      a plurality of communication interfaces <u>interconnected with said controller</u> for
data communicating between said communication interface device and said
plurality of global network based data processing resources; and

      a memory interconnected with [a microprocessor] <u>said controller</u> for
managing data communication [data flow including caching received data
communications from said wireless transceiver, or from said plurality of
communication interfaces, and for data or protocol conversion] between said
wireless transceiver, and said plurality of communication means;

      [wherein, data communicated between said in-vehicle device and said wireless
transceiver is processed, and routed by said microprocessor to said plurality of

25   communication means for data communication to said plurality of global

26   network based data processing resources;

27

28   wherein, data communicated between said plurality of communication

29   interfaces is processed, and routed by said microprocessor to said wireless

30   transceiver for data communication to said in-vehicle device;

31

32   wherein, said in-vehicle device data communicates, by way of said

33   communication interface, with said plurality of global network based data

34   processing resources.]

35

36   wherein, data communication between said in-vehicle device and said plurality of

37   global network based data processing resources is effectuated by way of said

38   communication interface device.

39

1   2. (Amended) The communication interface device in accordance with claim 1,

2   wherein[,] said plurality of communication interfaces includes at least one of the

3   following communication interface types: a universal serial bus port, a personal

4   data assistant interface, an RS232 interface, an RS485 interface, a carrier current

5   interface, a network connection to the [I]internet, a modem interface, a wireless

6   modem interface, a cellular phone transceiver, a cellular phone interface, a

7   wireless data link, or a local area network interface.

8

1   3. (Amended) The communication interface device in accordance with claim 1,

2   wherein[,] said plurality of interfaces is a[n] computer interface to a [personal]

3   computer, said [personal] computer having data communication access to said

4   plurality of global network based data processing resources, such that said in-

5   vehicle device, by way of said computer interface [to said personal computer],

6   data communicates with at least one of the following: said [personal] computer,

7   [and data communicates with], or said plurality of global network based data

8   processing resources.

9

1   4. (Amended) The communication interface device in accordance with claim 1,

2   wherein[, said plurality of global network based data processing resources

3   includes a personal computer, said plurality of interfaces is an interface to said

4   personal computer;

5

6   wherein,] said communication interface device and said in-vehicle device data

7   communicate[s] with at least one of the following: a programmable storage

8   device, a computer, a pocket sized personal computer, a pager, a wireless

9   phone, or a personal data assistant.[,]

10

11   [wherein, said programmable storage device, or said personal data assistant

12   being programmable by said personal computer, or by said plurality of global

13   network based data processing resources having data communication access to

14   said personal computer, or said in-vehicle device.]

15

1   5. (Amended) The communication interface device in accordance with claim 1,

2   wherein[,] said communication interface device is an internet appliance device.

3

1   6. (Amended) The communication interface device in accordance with claim 1,

2   wherein[,] said communication interface device is interconnected with at least one

3   of the following: a computer, a pocket sized personal computer, a point of sale

4   system, a database, a garage door opener, a gas pump, a toll booth, a change toll

5   booth, a wireless toll-pass system, a traffic light pole, a pole, a traffic light, a

6   parking gate, a parking terminal, a store display, an internet appliance device, or a

7   vehicle analyzer.

8

9

1 7. (Amended) A method of monitoring the location of a vehicle equipped with an in-

2   vehicle device, said in-vehicle device wirelessly data communicates with a

3   plurality of global network based data processing resources, wherein[,] wireless

4   data communication between said in-vehicle device and said plurality of global

5   network based data processing resources is [facilitated] effectuated by a

6   communication interface device, said method comprising the steps of:

7

8   from said communication interface device client side:

9

10   a) receiving a data communication at said communication interface device

11   from said in-vehicle device, said data communication occurring when said in-

12   vehicle device is in wireless proximity with said communication interface

13   device;

14

15   b) routing said data communication to said plurality of global network based

16   data processing resources;

17

18   c) receiving a plurality of return data [as required] from said plurality of

19   global network based data processing resources;

20

21   d) communicating wirelessly said plurality of return data to said in-vehicle

22   device;

23

24   from [the] said plurality of global network based data processing resources server

25   side:

26

27   e) identifying said data communication received from said communication

28   interface device;

29

30   f) modifying a vehicle location database[, said vehicle location database being

31   located on at least one of said global network based data processing

32   resources];

33

34   g) determining appropriate said plurality of return data; and

35

36   h) communicating said plurality of return data to said communication

37   interface device for wireless data communication to said in-vehicle device.

38

1   8. (Amended) The method of monitoring the location of a vehicle in accordance

2   with claim 7, wherein[,] the step of receiving return data includes receiving

3   command and control data from said plurality of global network based data

4   processing resources. [, wherein command and control data can include enabling

5   or disabling operation of said vehicle.]

6

1   9. (Amended) The method of monitoring the location of a vehicle in accordance

2   with claim 7, wherein[,] said communication interface device is an internet

3   appliance device.

4

1   10. (Amended) The method of monitoring the location of a vehicle in accordance

2   with claim 7, wherein[,] the step of modifying a vehicle location database

3   includes modifying [a] said vehicle location database for at least one of the

4   following applications: regulating attendance based on said vehicle entry to[,] or

5   exit from a parking area [through a parking gate or parking terminal], enabling or

6   disabling operation of said vehicle when said vehicle passes in wireless proximity

7   to said communication interface device, [said vehicle] route or trip progress

8   tracking of said vehicle, calculating said vehicle rate of speed between a plurality

9   of checkpoints [each of said plurality of checkpoints being equipped with said

10   communication interface device], or calculating said vehicle rate of speed

11   between said plurality of checkpoints [each of said plurality of checkpoints being

12   equipped with said communication interface device] for the purpose of identifying

13   speeders [and issuing speeding tickets].

14

1   11. (Amended) A method of data communicating between a wireless device, a

2   plurality of global network based data processing resources, and an in-vehicle

3   device installed in a vehicle, [wherein said wireless device, by way of said in-

4   vehicle device, communicates with a plurality of global network based data

5   processing resources, or accesses said in-vehicle device data] said method

6   comprising the steps of:

7

8   a) initiating data communication between said wireless device and said in-

9   vehicle device;

10

11   b) [allowing wireless device to access data stored within said in-vehicle

12   device or accessible by said in-vehicle device;] communicating a plurality of

13   data between said in-vehicle device and said wireless device;

14

15   c) routing said plurality of data from said wireless device [data] to a

16   communication interface device, said communication interface device having

17   data communication access to a plurality of global network base data

18   processing resources;

19

20   d) receiving at said wireless device a plurality of return data as required from

21   said plurality of global network based data processing resources by way of

22   said communication interface device; and

23

24   e) communicating said plurality of return data [to] <u>between said wireless</u>

25   <u>device and</u> said in-vehicle device. [by way of said communication interface

26   device; and

27

28   f) routing said plurality of return data received at said in-vehicle device to said

29   wireless device.]

30

1   12. (Amended) The method of data communicating between a wireless device [and an

2   in-vehicle device], <u>a plurality of global network based data processing resources,</u>

3   <u>and an in-vehicle device</u> in accordance with claim 11, wherein[,] the step of

4   [allowing said wireless device to access data stored in said in-vehicle device or

5   accessible by said in-vehicle device] <u>communicating a plurality of data between</u>

6   <u>said in-vehicle device and said wireless device</u> includes <u>data communicating</u>

7   [allowing said wireless device to access] at least one of the following <u>types of</u>

8   <u>data</u>: said vehicle data [operational status], said vehicle telemetry data, said

9   vehicle metric data, said in-vehicle device [memory] <u>data</u>, said in-vehicle device

10   [stored] digital content [including audio data, video data, data files], said in-

11   vehicle device settings, [or] said vehicle <u>data</u>, [or] said in-vehicle device system

12   preferences, <u>said in-vehicle device digital audio content, or said in-vehicle device</u>

13   <u>digital video content</u>.

14

1   13. (Amended) The method of data communicating between a wireless device [and an

2   in-vehicle device], <u>a plurality of global network based data processing resources,</u>

3   <u>and an in-vehicle device</u> in accordance with claim 11, wherein[,] said wireless

4   device is at least one of the following: a wireless phone, a personal data assistant,

5   a pager, a pocket sized personal computer, an internet appliance device, or a

6   programmable data storage device.

7

8

9

1   14. (Amended) The method of data communicating between a wireless device [and an

2   in-vehicle device], a plurality of global network based data processing resources,

3   and an in-vehicle device in accordance with claim 11, wherein[,] said wireless

4   device data communicates with said in-vehicle device by way of at least one of

5   the following methods: hard wired connection, infrared connection,

6   BLUETOOTH standard and protocol, or WIRELESS APPLICATION

7   PROTOCOL and standard.

8

1   15. (Amended) The method of data communicating between a wireless device [and an

2   in-vehicle device], a plurality of global network based data processing resources,

3   and an in-vehicle device in accordance with claim 11, wherein[,] said

4   communication interface device is an internet appliance device.

5

1   16. (Amended) The method of data communicating between a wireless device [and an

2   in-vehicle device], a plurality of global network based data processing resources,

3   and an in-vehicle device in accordance with claim 11, wherein[,] said

4   communication interface device is interconnected with an internet appliance

5   device.

6

1   17. (Amended) A method of servicing a vehicle including procuring automotive

2   replacement parts from a communication interface device, said communication

3   interface device being accessible by a customer, said communication interface

4   device being located in an auto parts store, an auto parts area, a vehicle service

5   center, or a vehicle sales center, said method comprising the steps of:

6

7   a) allowing said customer to interact with said communication interface

8   device;

9

10   b) accessing digital content to aid said customer in a plurality of <u>services or</u>

11   products selection, wherein accessing digital content includes accessing <u>at</u>

12   <u>least one of the following:</u> local digital content, [or] databases, or <u>a plurality</u>

13   <u>of</u> [remote] global network based data processing resources [including remote

14   digital content or databases];

15

16   c) presenting digital content to said customer, including digital content related

17   to said plurality of <u>services or</u> products;

18

19   d) allowing said customer to physically select at least one of said plurality of

20   <u>services or</u> products [based in part on digital content presented to said

21   customer] from on-hand inventory;

22

23   e) determining, through customer interaction with said communication

24   interface device, if said customer successfully physically selected at least one

25   of said plurality of <u>services or</u> products from on-hand inventory;

26

27   f) allowing as required said customer to order any one or more of said

28   plurality of <u>services or</u> products by way of said communication interface

29   device; and

30

31   g) effectuating as required an e-commerce <u>transaction, or an</u> e-business

32   transaction to fulfill said customer's order.

33

1   18. (Amended) The method of servicing a vehicle in accordance with claim 17 further

2   comprising the step of:

3

4   a) charging a plurality of fees for [digital content and services] <u>at least one of</u>

5   <u>the following: said e-commerce transaction, said e-business transaction,</u>

6   digital content, said plurality of services or products, distributing said plurality

7   of digital content, for royalty payments, for service fees, for download charge,

8   for network time, for digital content access, time utilized charge, or for

9   facilitating an e-commerce or e-business transaction.

10

1   19. (Canceled)

2

1   20. (Amended) The method of servicing a vehicle in accordance with claim 17,

2   wherein[,] the step of allowing a user to interact with said communication

3   interface device includes at least one of the following interactions: transferring

4   data between a wireless device and said communication interface device, [or]

5   manually interacting with said communication interface device, [through] voice

6   recognition, biometric recognition, keypad, general purpose said communication

7   interface device input or output, or touch screen input.

8

1   21. (Amended) The method of servicing a vehicle in accordance with claim 20,

2   wherein said wireless device is at least one of the following: a wireless phone, a

3   personal data assistant, a pager, a pocket sized personal computer, an internet

4   appliance device, or a programmable data storage device.

5

1   22. (Amended) A method of using a wireless device to transfer data between an in-

2   vehicle device installed in a vehicle and a [personal] computer located external to

3   said vehicle, said [personal] computer being interconnected with a communication

4   interface device, said [personal] computer data communicates with said wireless

5   device by way of said communication interface device comprising the steps of:

6

7   a) initiating a data communication between said wireless device and said in-

8   vehicle device;

9

10   b) transferring data between said wireless device and said in-vehicle device

11   [wherein, transferring data includes transferring data related to at least one of

12   the following: data related to said vehicle, data related to said in-vehicle

13   device, data related to said wireless device, data from said personal computer

14   previously stored in said wireless device, or data from a plurality of global

15   network based data processing resources previously stored within said

16   wireless device or accessible by said wireless device];

17

18   c) transporting said wireless device to a physical location external to said

19   vehicle and in wireless proximity to said communication interface device,

20   wherein[,] data communication between said wireless device and said

21   communication interface device [can occur] is effectuated;

22

23   d) initiating a data communication between said wireless device and said

24   communication interface device; and

25

26   e) transferring data between said wireless device and said [personal] computer

27   by way of said communication interface device [wherein, transferring data

28   includes transferring data related to at least one of the following: data related

29   to said vehicle, data related to said in-vehicle device, data related to said

30   wireless device, data stored within said wireless device or accessible by said

31   wireless device, including transferring data between said wireless device and

32   said plurality of global network based data processing resources].

33

1   23. (Amended) The method of using a wireless device to transfer data in accordance

2   with claim 22, wherein[,] said wireless device is at least one of the following: a

3   wireless phone, a personal data assistant, a pager, a pocket sized personal

4   computer, an internet appliance device, or a programmable data storage device.

5

6

7

1   24. (Newly Added) The method of using a wireless device to transfer data in

2   accordance with claim 22, wherein transferring data in steps b and e includes

3   transferring data related to at least one of the following: data related to said

4   vehicle, data related to said in-vehicle device, data related to said wireless device,

5   data related to a user, data related to said user preferences, data from said

6   computer, data stored within said wireless device or accessible by said wireless

7   device, a database, or data from said plurality of global network based data

8   processing resources

9

1   25. (Newly Added) The communication interface device in accordance with claim 1,

2   wherein:

3

4   data communicated between said in-vehicle device and said wireless

5   transceiver is processed and or routed by said controller to said plurality of

6   communication means for data communication to said plurality of global

7   network based data processing resources; and or

8

9   data communicated between said plurality of communication interfaces is

10   processed and or routed by said controller to said wireless transceiver for data

11   communication to said in-vehicle device.

12

1   26. (Newly Added) The communication interface device in accordance with claim 1,

2   wherein the managing of data communication data flow between said in-vehicle

3   device and said plurality of global network based data processing resources

4   includes data and or protocol conversion between said wireless transceiver and or

5   said plurality of communication means.

6

7

1   27. (Newly Added) The communication interface device in accordance with claim 1,

2   wherein said communication interface device manages data communication

3   including caching data communications from said wireless transceiver and or

4   from said plurality of communication interfaces.

5

1   28. (Newly Added) The communication interface device in accordance with claim 4

2   wherein, data communication between said in-vehicle device and said

3   communication interface device is effectuated by transferring data between at

4   least one of the following: said computer, said pocket sized personal computer, a

5   point of sale system, said programmable storage device, said personal data

6   assistant, said pager, or said wireless phone.

7

1   29. (Newly Added) The communication interface device in accordance with claim 27

2   wherein, a user effectuates the data communication between said communication

3   interface and said in-vehicle device by physically carrying the data

4   communication device between said in-vehicle device and said communication

5   interface.

6

1   30. (Newly Added) The method of monitoring the location of a vehicle in accordance

2   with claim 8, wherein command and control data can includes enabling or

3   disabling operation of said vehicle.

4